



Thermistor overload relay for machine protection, 1W , 24-240V50/60Hz, 24-240VDC, without reclosing lockout

Part no. EMT6
Article no. 066166
Catalog No. EMT6

Delivery programme

Product range			EMT6 thermistor overload relay for machine protection
Function			Without automatic reset Mains and fault LED display
Rated operational current			
AC-15			
240 V	I_e	A	3
AC--14			
300 V	I_e	A	3
400 V	I_e	A	3
			Wert gilt ab Release 001.
conventional thermal current	I_{th}	A	6
Rated control voltage	U_s	V	24 - 240 V 50 - 400 Hz 24 - 240 V DC
Notes			
Observe manual MN03407006Z-DE/EN.			
Can be snap fitted on a top-hat rail to IEC/EN 60715.			

Technical data

General

Standards			IEC/EN 60947, VDE 0660, EN 55011
Climatic proofing			Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature		°C	
Open		°C	-25 - +60
Enclosed		°C	- 25 - 45
Storage		°C	- 45 - 85
Mounting position			As required
Weight		kg	0.15
Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27		g	10
Degree of Protection			IP20
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Safe isolation to EN 61140			
between the contacts		V AC	250
between contacts and power supply		V AC	250

Auxiliary and control circuits

Rated impulse withstand voltage	U_{imp}	V AC	4000
Rated impulse withstand voltage	U_{imp}	V AC	6000
			Wert gilt ab Release 001.
Overvoltage category/pollution degree			III/3
Terminal capacities Auxiliary and control circuits			
Solid		mm ²	1 x (0.5 - 2.5) 2 x (0.5 - 1.5)
Flexible with ferrule		mm ²	1 x (0.5 - 2.5) 2 x (0.5 - 1.5)
Solid or stranded		AWG	20 - 14
Terminal screw			M3.5
Tightening torque		Nm	1.2
Tools			

Pozidriv screwdriver		Size	2
Standard screwdriver		mm	1 x 6
Auxiliary power circuit			
Rated insulation voltage	U_i	V	300
Rated insulation voltage	U_i	V	400
			Wert gilt ab Release 001.
Rated operational current	I_e	A	
AC--14			
Make contact			
300 V	I_e	A	3
380 V 400 V 415 V	I_e	A	3
			Wert gilt ab Release 001.
Break contact			
300 V	I_e	A	3
380 V 400 V 415 V	I_e	A	3
			Wert gilt ab Release 001.
AC-15			
Make contact			
220 V 230 V 240 V	I_e	A	3
300 V	I_e	A	1
380 V 400 V 415 V	I_e	A	1
			Wert gilt ab Release 001.
Break contact			
220 V 230 V 240 V	I_e	A	3
300 V	I_e	A	1
380 V 400 V 415 V	I_e	A	1
			Wert gilt ab Release 001.
Max. short-circuit protective device			
Fuse	gG/gL	A	6

Control circuit

Rated insulation voltage	U_i	V	240
Rated operational voltage	U_e	V	240
Pick-up and drop-out values		x U_e	0.85 - 1.1
Power consumption			
AC		VA	3.5
DC		W	2
Trip at approx.		Ω	3600
Recovery at approx.		Ω	1600

Electromagnetic compatibility (EMC)

Electrostatic discharge (ESD)			
applied standard			IEC/EN 61000-4-2
Air discharge		kV	8
Contact discharge		kV	6
Electromagnetic fields (RFI)			
applied standard			IEC/EN 61000-4-3
		V/m	80 - 1000 MHz: 10 1.4 - 2 GHz: 3 2.0 - 2.7 GHz: 1
Radio interference suppression			EN 55011 Class B
Burst		kV	Supply cables: 2 Signal cables: 1 according to IEC/EN 61000-4-4
power pulses (Surge)			2 kV (symmetrical) 4 kV (asymmetrical) according to IEC/EN 61000-4-5
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		V	10

Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60

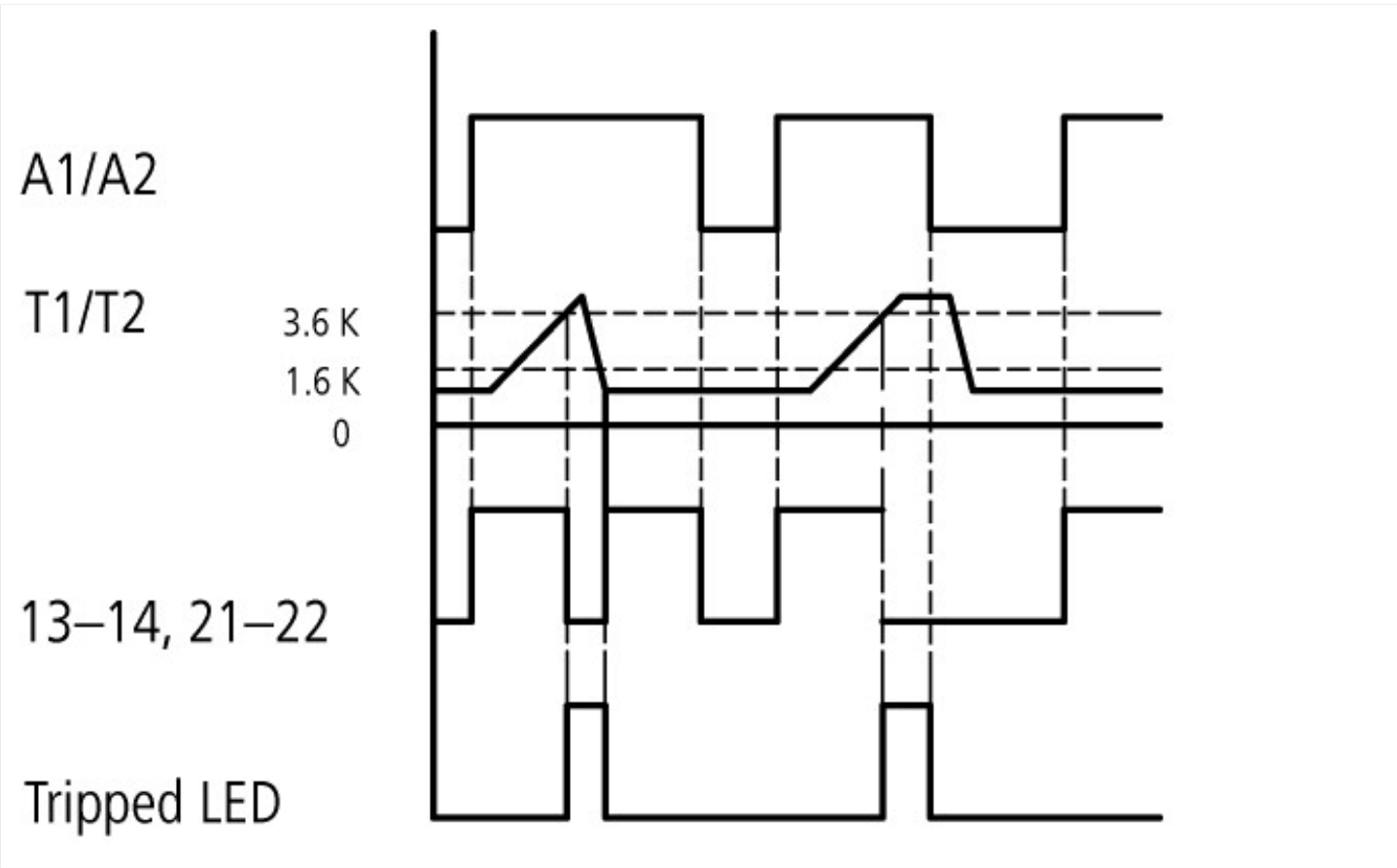
Technical data ETIM 6.0

Relays (EG000019) / Temperature monitoring relay (EC001446)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Temperature monitoring equipment (ecI@ss8.1-27-37-18-10 [AKF104011])			
Type of electric connection			Screw connection
Rated control supply voltage Us at AC 50HZ		V	24 - 240
Rated control supply voltage Us at AC 60HZ		V	24 - 240
Rated control supply voltage Us at DC		V	24 - 240
Voltage type for actuating			AC/DC
With detachable clamps			No
Number of measuring circuits			1
Error registration possible			No
External reset possible			No
Number of contacts as normally closed contact			1
Number of contacts as normally open contact			1
Number of contacts as change-over contact			0
Width		mm	23
Height		mm	84
Depth		mm	104

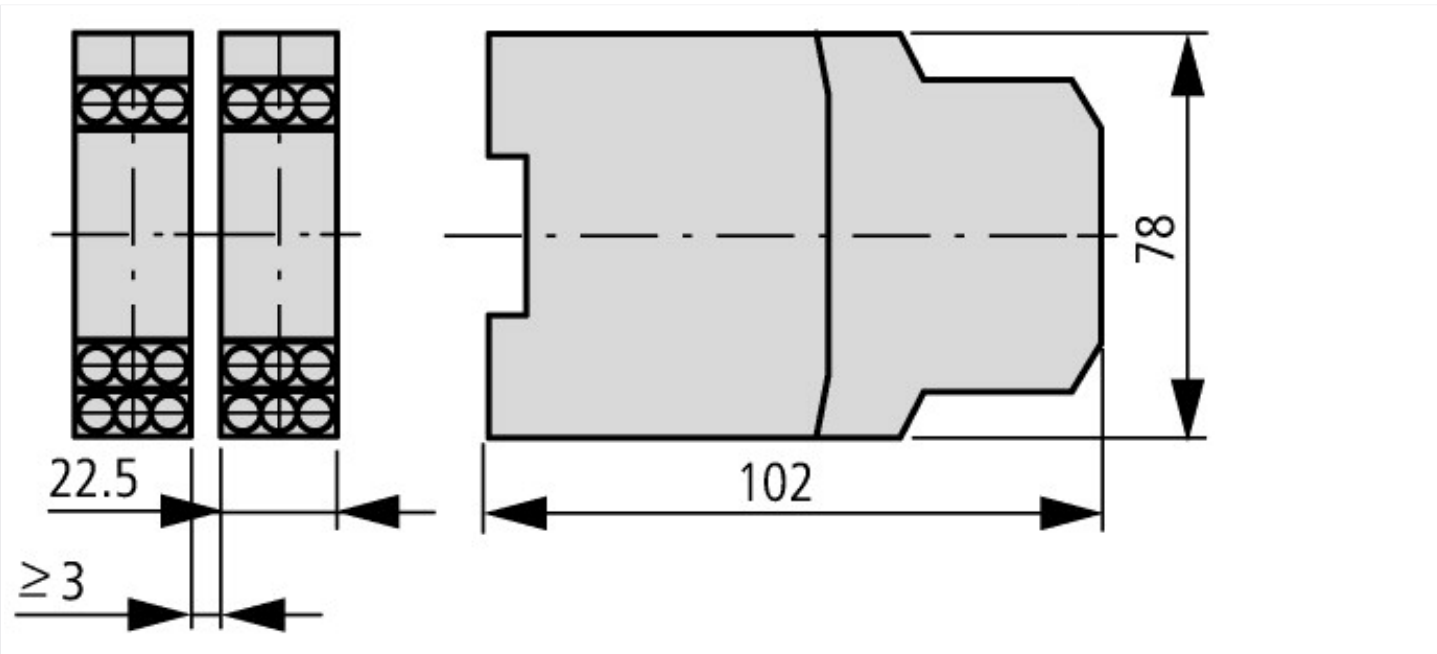
Approvals

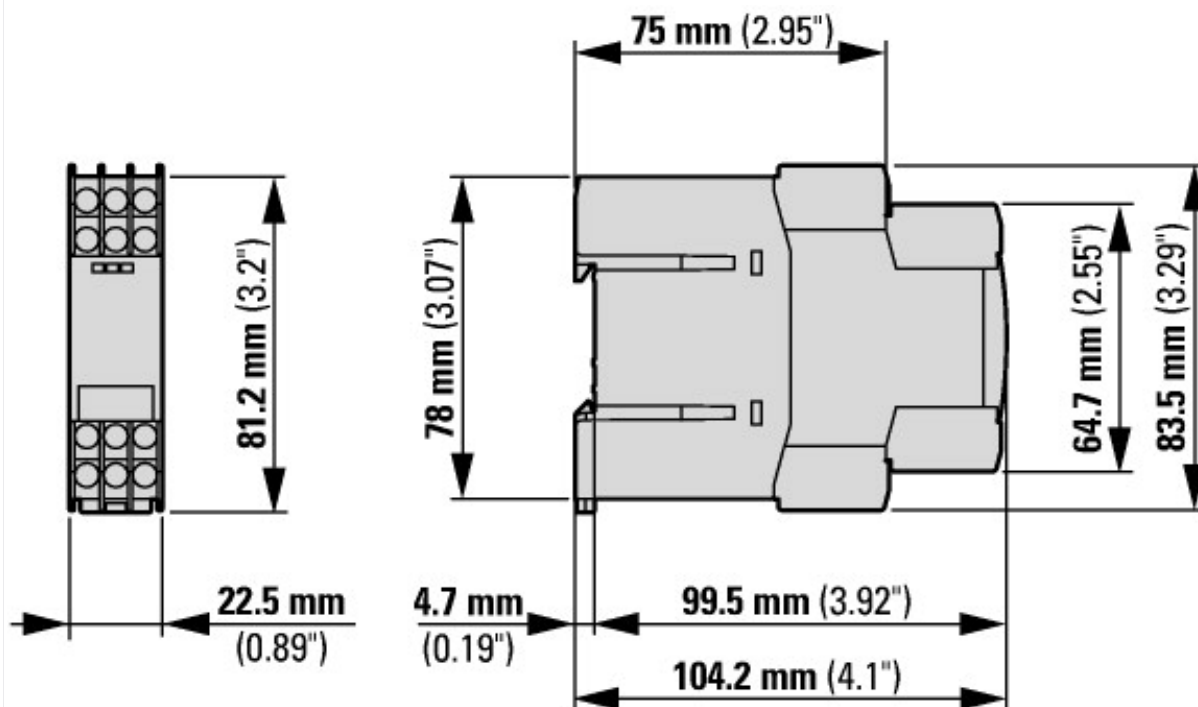
Product Standards			UL 508; CSA-C22.2 No. 14; IEC/EN 60947-8; CE marking
UL File No.			E29184
UL Category Control No.			NKCR
CSA File No.			12528
CSA Class No.			3211-03
North America Certification			UL listed, CSA certified
Specially designed for North America			No
Max. Voltage Rating			600 V AC
Degree of Protection			IEC: IP20, UL/CSA Type: -

Characteristics



Dimensions





Applies to release 001 and higher

Additional product information (links)

IL03407100Z (AWA2327-1454) thermistor overload relay for machine protection

IL03407100Z (AWA2327-1454) thermistor overload relay for machine protection

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407100Z2014_11.pdf

MN03407006Z (AWB2327-1446) EMT6 machine protection relays - overload monitoring for machines in Ex e areas

MN03407006Z (AWB2327-1446) EMT6 machine protection relays - overload monitoring for machines in Ex e areas - English

ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03407006Z_DEEN.pdf

terminal markings and sensor circuit

<http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=6.21>